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 1 [Open runtime platform: flexibility with performance using interfaces](#)
☐ Michał Cierniak, Brian T. Lewis, James M. Stichtoth

November 2002 JGI '02: Proceedings of the 2002 joint ACM-ISCOPE conference on Java G

Publisher: ACM

 Full text available: ☐ Pdf (300.99 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 40, Citation Count: 3

According to conventional wisdom, interfaces provide flexibility at the cost of performance. Java virtual machines today tightly integrate their core virtual machines in-time compilers and garbage collectors to get ...

Keywords: JVM, Java, dynamic compilation, garbage collection, interface design, in-time compilation, modular components, virtual machine

 2 [Practicing JUDO: Java under dynamic optimizations](#)
☐ Michał Cierniak, Guei-Yuan Lueh, James M. Stichtoth

August 2000 PLDI '00: Proceedings of the ACM SIGPLAN 2000 conference on Programming language design and implementation

Publisher: ACM

 Full text available: ☐ Pdf (190.06 KB)

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A high-performance implementation of a Java Virtual Machine (JVM) consists of efficient implementation of Just-In-Time (JIT) compilation, exception handling, synchronization and garbage collection (GC). These components are tightly coupled ...

Also published in:

May 2000 SIGPLAN Notices Volume 35 Issue 5

 3 [Proxy compilation of dynamically loaded Java classes with MoJo](#)
☐ Matt Newsome, Des Watson

July 2002 LCTES/ SCOPES '02: Proceedings of the joint conference on Languages, compilers for embedded systems: software and compilers for embedded systems

Publisher: ACM

 Full text available: ☐ Pdf (358.62 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index b](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 46, Citation Count: 1

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java show dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hot time, native compilation, proxy compilation, remote compilation

Also published in:

July 2002 SIGPLAN Notices Volume 37 Issue 7

4 A generic component model for building systems software



Geoff Coulson, Gordon Blair, Paul Grace, Francois Talani, Ackbar Joolia, Kevin Lee, Jo Uey Thirunavukkarasu Sivaharan

February 2008 Transactions on Computer Systems (TOCS) , Volume 26 Issue 1

Publisher: ACM

Full text available: Pdf (603.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 934, Citation Count: 1

Component-based software structuring principles are now commonplace at the applica componentization is far less established when it comes to building low-level systems s Although there have been pioneering efforts in applying componentization ...

Keyw ords: Component-based software, computer systems implementation

5 Constructing a metacircular Virtual machine in an exploratory programming enviro



David Ungar, Adam Spitz, Alex Auch

October 2005 OOPSLA '05: Companion to the 20th annual ACM SIGPLAN conference on C programming, systems, languages, and applications

Publisher: ACM

Full text available: Mov (39:52 MIN), Pdf (755.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 107, Citation Count: 3

Can virtual machine developers benefit from religiously observing the principles more i for exploratory programming? To find out, we are concurrently constructing two artifac entirely in Self (the Klein VM), and a specialized ...

Keyw ords: Klein, code reuse, debugger, exploratory programming, fix-and-continue, liveness, meta-recursive, metacircularity, mirror-based reflection, object oriented, prol reactivity, remote reflection, self, virtual machine

6 HDTrans: an open source, low-level dynamic instrumentation system



Swaroop Sridhar, Jonathan S. Shapiro, Eric Northrup, Prashanth P. Bungle

June 2006 VEE '06: Proceedings of the 2nd international conference on Virtual execution

Publisher: ACM

Full text available: Pdf (146.53 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 61, Citation Count: 3

Dynamic translation is a general purpose tool used for instrumenting programs at run Performance of translated execution relies on balancing the cost of translation against any optimizations achieved, and many current translators ...

Keyw ords: binary translation, dynamic instrumentation, dynamic translation

7 A middleware for experimentation on dynamic adaptation



Renato Maia, Renato Cerqueira, Fabio Kon

November 2005 ARM '05: Proceedings of the 4th workshop on Reflective and adaptive mic systems

Publisher: ACM

Full text available: Pdf (377.38 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 24, Citation Count: 2

This paper presents OIL, an adaptive middleware that aims at supporting experimental different models and techniques for dynamic adaptation of distributed systems. OIL is a implementation written completely in Lua, an interpreted language ...

**Keywords:** CORBA, adaptive middleware, dynamic adaptation, programming abstract middleware

## 8 [Confessions of a used programming language salesman](#)

Erk Meijer



October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on programming systems and applications

Publisher: ACM

Full text available: Pdf (313.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 369, Citation Count: 0

For many years I had been fruitlessly trying to sell functional programming and Haskell world problems such as scripting and data-intensive three-tier distributed web application development. While object-oriented programming is a real pity. ...

Also published in:

October 2007 SIGPLAN Notices Volume 42 Issue 10

## 9 [Sifting out the mud: low level C++ code reuse](#)

Bjorn De Sutter, Bruno De Bus, Koen De Bosschere



November 2002 OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on Object programming, systems, languages, and applications

Publisher: ACM

Full text available: Pdf (1.35 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 44, Citation Count: 14

More and more computers are being incorporated in devices where the available amount of memory is limited. This contrasts with the increasing need for additional functionality and the need for application development. While object-oriented programming is a real pity. ...

**Keywords:** code compaction, code size reduction

Also published in:

November 2002 SIGPLAN Notices Volume 37 Issue 11

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